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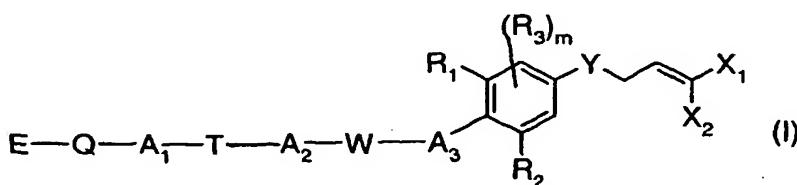
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 2,6-DIHALO-4-(3,3-DICHLORO-ALLYLOXY)-BENZYLALCOHOLE DERIVATIVES HAVING INSECTICIDAL AND ACARICIDAL PROPERTIES



S0₂; X₁ and X₂ are, each independently of the other, fluorine, chlorine, bromine or iodine; R₁ is, for example, halogen, CN, nitro, C₁-C₆alkyl or C₁-C₆haloalkyl; R₂ and R₃ are, for example, H, halogen, CN, nitro or C₁-C₆alkyl; R₇ is, for example, H, C₁-C₆alkyl or C₁-C₃haloalkyl; m is 1 or 2; and E is C₁-C₆alkyl, C₁-C₆haloalkyl, aryl or heterocyclic; and, where applicable, possible E/Z isomers, mixtures of E/Z isomers and/or tautomers thereof, in each case in free form or in salt form; a process for the preparation of and the use of those compounds; pesticidal compositions in which the active ingredient has been selected from those compounds, or an agrochemically usable salt thereof; a process for the preparation of and the use of those compositions; plant propagation material treated with those compositions; and a method of controlling pests are described.

(57) Abstract: Compounds of formula (I), wherein: A₁ is, for example, a bond or a C₁-C₆alkylene bridge; A₂ is, for example, a bond or C₁-C₆alkylene; A₃ is, for example, C₁-C₆alkylene; W is, for example, O or S; T is, for example, a bond, O, NH, NR₇, S, SO, SO₂, -C(=O)-O- or -O-C(=O)-; Q is a bond, O, NR₇, S, SO or S0₂; Y is O, NR₇, S, SO or

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	C07C43/225	C07C255/54	C07C43/29	C07D215/58	C07D231/20
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>DATABASE CA 'Online!' CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SUZUKI, MASAYA: "Pyridinyl-containing chlorobenzenes and insecticides containing them" retrieved from STN Database accession no. 138:233426 CA XP002278545 the whole document & JP 2003 081942 A (SUMITOMO CHEMICAL CO., LTD., JAPAN) 19 March 2003 (2003-03-19) ---- -/-</p>	1-9

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CA 'Online!' CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KATSURADA, MANABU ET AL: "Preparation of dihalopropenoxybenzene derivatives and pesticides containing the same as the active ingredient" retrieved from STN Database accession no. 135:46183 CA XP002278546 RN: 345200-99-9 abstract & WO 2001/044154 A (MITSUBISHI CHEMICAL CORPORATION, JAPAN) 21 June 2001 (2001-06-21)</p> <p>---</p>	1-9
X	<p>WO 02/17712 A (FMC CORP) 7 March 2002 (2002-03-07) Compound 61 (pages 74 and 90)</p> <p>---</p>	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14757

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2003081942	A	19-03-2003	NONE		
WO 2001044154	A	21-06-2001	AU 2023801 A		25-06-2001
			WO 0144154 A1		21-06-2001
			JP 2001240583 A		04-09-2001
WO 0217712	A	07-03-2002	AU 8690901 A		13-03-2002
			CZ 20030493 A3		13-08-2003
			EP 1334083 A2		13-08-2003
			WO 0217712 A2		07-03-2002
			US 2003207894 A1		06-11-2003
			US 2002183342 A1		05-12-2002